CHEMET Forecast

Doncaster Fire CHEMET 744_001

Issued by Met Office Environment Monitoring and Response Centre (EMARC)

Tel: 01392 447947 Email: emarc@metoffice.gov.uk Link to Hazard Manager

Plume forecast below 100m - map will be sent separately

Forecast Issued on Sunday, 03 July 2022 at 16:39 local

To: Duty Officer	**Organisation:** SYFRS
Tel: 01142536808	**Email:** control1@syfr.gov.uk

Forecast for: Doncaster **Nature of Incident:** Fire

Incident ongoing since: 03/07/2022 15:00

Forecast valid between: 15:00 03/07/2022 *and* 03:00 04/07/2022

Surface wind direction/speed: *Blowing from W towards E at 12-15 mph. Changes to blowing from W towards E at 7-10 mph from 2000hrs, then blowing from SW towards NE at 6-8 mph from midnight.*

Weather conditions and effect on plume: Dry through the rest of the afternoon and overnight. Any plume will initially be buoyant and disperse moderately downwind. Overnight, the plume will become contained at low levels, though grounding is not expected. Winds will slacken to become gentle overnight with slow to moderate dispersal downwind.

If incident continues beyond the validity period, the following weather conditions will affect the plume

Remaining dry, the plume initially close to the surface around dawn, but grounding not expected. Plume becoming buoyant through the morning and dispersing more readily downwind as winds strengthen. Initially winds blowing from the southwest, then blowing from the west from mid-morning.

Please call 01392 447947 to request further updates if this incident is likely to continue or to discuss further.

Additional Information for Science and Health Agencies

Precipitation (type and intensity): Nil

Total Cloud amount: 4 oktas

Height of lowest significant cloud: 3000 feet

Air temperature: 20 bec 14 °C

Relative humidity: 60 bec 75 %

Depth of mixing layer: 1500 bec 100 metres

Wind at top of mixing layer: Blowing from 270 to 090 degrees at 30 km/h

Air stability: D *(A=unstable, G=stable)*

Latitude and Longitude of source: 53.5288 N, 1.134 W

Sensible heat flux: 71 W/m^2

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